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[1. RFA-HD-16-006 : Tools for Assessment and Improvement of Neurologic Outcomes \(R41/R42\)](#)

Release Date: 08-12-2015 Open Date: 11-10-2015 Due Date: 12-10-2015 Close Date: 12-10-2015

Background Improving pregnancy outcome is a prime mission for Eunice Kennedy Shriver National Institute of Child Health and Human Development (NICHD). Neonatal neurologic disease contributes a significant burden to patients, their families and society. Neonatal encephalopathy (NE) affects up to 3.3/1000 term and late preterm infants in the developed world. Hypoxic ischemic encephalopathy (HIE), a ...

STTR Department of Health and Human Services

[2. RFA-DA-16-006 : Tools for Monitoring and Manipulating Modified RNAs in the Nervous System \(R41/R42\)](#)

Release Date: 07-21-2015 Open Date: 10-18-2015 Due Date: 11-18-2015 Close Date: 11-18-2015

Background Chemical modifications play a crucial role in the regulation of biological processes. For example, the function of a protein is often modulated by its stable tagging with phosphates, sugars, or lipids, while epigenomic marks on DNA or histones can help dial gene expression up or down. One area that lags behind is the systematic characterization of all the chemical modificati ...

STTR Department of Health and Human Services

[3. RFA-HL-15-026: HHS STTR RFA-HL-15-026](#)

Release Date: 12-03-2014 Open Date: 01-09-2015 Due Date: 11-09-2015 Close Date: 11-09-2015

Background Twenty-five years after discovery of the gene that causes cystic fibrosis (CF), we now are witnessing the emergence of drug therapies that target the fundamental molecular dysfunctions associated with mutations in the CF transmembrane conductance regulator (CFTR) gene. While these novel therapies offer an exciting prospect for modifying disease outcomes in CF, they may complicate even ...

STTR Department of Health and Human Services

[4. CBD15C-001: Infectious Disease Diagnostics and Differentiation of Viral vs. Bacterial Infections for Point of Care Applications](#)

Release Date: 08-27-2015 Open Date: 09-28-2015 Due Date: 10-28-2015 Close Date: 10-28-2015

TECHNOLOGY AREA(S): Chemical/Biological Defense; Biomedical OBJECTIVE: To provide an easy to use human clinical diagnostic testing technology which is effective for the detection, identification and differentiation of a wide range of viral and bacterial diseases caused by endemic diseases and biological warfare agents. Capabilities sought should be rapid and highly sensitive and selective sol ...

STTR Office for Chemical and Biological Defense Department of Defense

[5. DLA15C-001: Detecting Counterfeit, Substandard, Nonconforming, and Improperly Processed Material](#)

Release Date: 08-27-2015 Open Date: 09-28-2015 Due Date: 10-28-2015 Close Date: 10-28-2015

TECHNOLOGY AREA(S): Air Platform, Battlespace, Chemical/Biological Defense, Ground/Sea Vehicles, Human Systems, Nuclear Technology, Sensors, Space Platforms, Weapons OBJECTIVE: The Defense Logistics Agency (DLA) seeks to provide responsive, best value supplies consistently to our customers. DLA continually investigates diverse technologies which would lead to the highest level of innovation i ...

STTR Defense Logistics Agency Department of Defense

[6. MDA15-T001: Contextual Reasoning for Object Identification](#)

Release Date: 08-27-2015 Open Date: 09-28-2015 Due Date: 10-28-2015 Close Date: 10-28-2015

TECHNOLOGY AREA(S): Information Systems, Sensors OBJECTIVE: Develop a technique to incorporate variable contextual information to aid object identification and target designation. DESCRIPTION: When dealing with well-understood threats in a clean environment, a simple formula using a previously defined set of sensor features may be adequate to identify the threat object. However, when enc ...

STTR Missile Defense AgencyDepartment of Defense

[7. MDA15-T002: System of Systems Control Interactions](#)

Release Date: 08-27-2015Open Date: 09-28-2015Due Date: 10-28-2015Close Date: 10-28-2015

TECHNOLOGY AREA(S): Information Systems OBJECTIVE: Develop and demonstrate innovative design and analysis techniques to characterize the stability and performance of a system of systems (SoS) as a function of sub-system dynamics, network structure and control/decision processes. DESCRIPTION: Seek design approaches that balance multiple sub-system network configurations and sub-system and ...

STTR Missile Defense AgencyDepartment of Defense

[8. MDA15-T003: Aerospace Vehicle Signature Modeling Technologies](#)

Release Date: 08-27-2015Open Date: 09-28-2015Due Date: 10-28-2015Close Date: 10-28-2015

TECHNOLOGY AREA(S): Air Platform, Information Systems, Sensors OBJECTIVE: Develop computational fluid dynamics (CFD) software tools to extend modeling capabilities, including turbulence, chemically reactive flow, radiative heat transfer and acoustics, for the prediction of aerospace vehicle signature phenomenology beyond the current state of the art. DESCRIPTION: Seek CFD software tools ...

STTR Missile Defense AgencyDepartment of Defense

[9. MDA15-T004: Spectral Crosstalk Reduction for Dual-band Long Wave Infrared Detectors](#)

Release Date: 08-27-2015Open Date: 09-28-2015Due Date: 10-28-2015Close Date: 10-28-2015

TECHNOLOGY AREA(S): Electronics, Materials/Processes, Sensors OBJECTIVE: Seeking solutions to reduce spectral crosstalk of dual-band long wave infrared (LWIR) III-V strained layer superlattice (SLS) based infrared (IR) focal plane arrays (FPA)/detectors. DESCRIPTION: Multi-color FPAs made of III-V SLS semiconductor materials have shown very promising results in recent years. Further impr ...

STTR Missile Defense AgencyDepartment of Defense

[10. MDA15-T005: Gold Contaminated Solder Joint Characterization for Quantifying Risks Associated with Gold Embrittlement](#)

Release Date: 08-27-2015Open Date: 09-28-2015Due Date: 10-28-2015Close Date: 10-28-2015

TECHNOLOGY AREA(S): Electronics OBJECTIVE: Develop a risk forecasting tool for quantifying the risks associated with gold-embrittled solder joints in electronic assemblies. Specifically, the model should accurately assess the likelihood of solder joint failure given specific environmental stress conditions (vibrational and thermal shock). DESCRIPTION: Circuit card

assemblies (CCAs) are c ...

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